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29 JUL 1970

MEMORANDUM FOR: Assistant Deputy Director for Support

SUBJECT : Color Motion Picture Photography in
Agency Auditorium

1. This is in response to your informal memorandum of 23 June 1970 pertaining to this subject and contains a recommendation for your approval. Such recommendation is contained in paragraph 4.

2. Agency personnel from this Office and the Office of Training who are most knowledgeable in the technical aspects of motion picture photography have made a further investigation relative to the availability of advanced lighting techniques, films, and equipment, in order to ascertain whether satisfactory color motion picture photography could be produced in the Agency auditorium without installation of additional high-intensity lighting. Their conclusion, supported by the qualified professionals in the industries involved with whom we have been in contact, is that, even with today's technology in films and equipment, 400 foot-candles of light at 3,200 degrees Kelvin temperature is the bare minimum necessary for satisfactory work and that the level should be closer to 800 foot-candles for more ideal conditions. Present lighting provides a maximum of 50 foot-candles.

3. While lighting adequate for color motion picture photography can be obtained when desired through the use of temporary installations, there is no question but that they are unsightly and distracting both for the subject photographed and for the audience. Installation of permanent lighting will be relatively costly in that it probably will necessitate some architectural redesign for the interior of the auditorium in order to afford appropriate concealment. As was indicated by [redacted] in his paper on this subject last October, tungsten-halogen lamps are generally recognized to be the most effective now available for this purpose and at least 19 units will be needed to provide the proper distribution, positioning and level of lighting for photography. This will necessitate an additional and separate electrical system in the auditorium.

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